U9310010
TST-11 PROGRAMMABLE TOUCHSCREEN THERMOSTAT

LCD Symbols

Symbols	Description	Symbols	Description
⏻	Turning on/off the thermostat	Day	Day of the week. Day 1= Monday, Day 2= Tuesday... etc.
🔒	The buttons are locked	Program 1,2,3,4,5,6	The program number
🔥	Heating is turned on	⚠	Reminding the user to connect the floor sensor (AF and F model only)
❄	Frost protection activated	☼	Comfort temperature mode
RT	Room temperature	☾	Economy temperature mode
FT	Floor temperature	🧳	Vacation temperature mode
AUTO	Automatic mode, executes the programmed schedules	🌡	Touch to view floor temperature for 5 seconds (AF model only)
O / RIDE	Temporary temperature override	Set Schedule	Touch to start programming of your thermostat
Err	The sensor is not being read by the thermostat	Heating Mode	Touch to switch among Auto ☼ ☾ 🧳

Configuration Menu

To enter into menu settings, touch ⏻ to turn thermostat off, and now touch Set Menu

Then you will see menu 01. Touch Next or Previous to select the menu number. Use ⊕ or ⊖ adjust the settings. Touch Done to accept and store.

Menu #	Features description	Features Explanation	Touch ⊕ or ⊖ to adjust
01	Model selection	This thermostat is a combination model allowing you to choose among 3 models. A model: air only , with built in sensor AF model: air & floor, with both built in and remote sensor F model: floor only , with remote sensor	A, AF, F
02	Switching differential	The numbers of degree difference before switching. The default is 1°C which means the thermostat will switch the heating on 0.5°C below the set temperature and will turn it off 0.5°C above the set temperature.With a 2°C differential, the heating will switch on 1°C below the set temperature and switch off 1°C above the set temperature.	1 °C, 2 °C, ...10°C, 1°C by default
03	Calibrate the room temperature	To compensate for any difference between the displayed room temperature and a thermometer	0 °C by default, -5°C ~ +5°C
04	Calibrate the floor temperature	To compensate for any difference between the displayed floor temperature and a thermometer	0 °C by default, -5°C ~ +5°C
05	Pump protection (hydronic heating only)	In hydronic heating installations, it is recommended to activate the pump at least 15 seconds every 24 hours in order to avoid any seizing. Select ON to activate this feature, OFF to deactivate. When the thermostat is activating the pump, the ⚠ icon will blink.	ON / OFF (OFF by default)
06	Optimum start(preheat).	This feature is to ensure that the required temperature has already been reached when you get up in the morning or come home from work.	ON / OFF(OFF by default)
07	Maximum floor temperature	This is to protect the floor surface by limit the floor temp. (AF model only)	40 °C by default, setting range 20°C ~ 40°C
08	Set backlight turning-on time.	Selecting on will turn the light on continuously. Selecting off will turn the light off. Selecting 20 seconds will turn the light on for 20 seconds.	20 seconds / ON /OFF
09	Temperature format	This allows users to select between °C or °F.	C / F
10	Select 12 / 24 hour clock	12 Hour or 24 Hour clock format selection	24H / 12H (24 hour clock by default)
11	Frost protection	This is to avoid room temperature goes below 5°C	ON = activated; OFF = deactivated
12	Program type selection	5_2 will give you 5 days(Monday to Fiday) with the same six events(Wakeup, out, home,out, home,sleep) and 2 days(Saturday and Sunday) with the same six events. 6_1 will give you 6 days(Monday to Saturday) with the same six events(Wakeup, out, home,out,home,sleep) and 1 day(Sunday) with the same six events. 7_0 will give you individual settings for each day from Monday to Sunday.	5_2 / 6_1 / 7_0 (7_0 by default)
13	Key click sound	Choose whether or not a key click sound is audible when you press the LCD screen	ON = sound audible; OFF = sound off

Setting the clock and day of the week

This thermostat is fitted with a real time clock. It is essential that the clock time and day are set accurately if you require your programmed events to start on time. Follow below steps,

1) Touch time display . Use ⊕ or ⊖ to change the time. Press and hold ⊕ or ⊖ to change the time faster. Touch Done to store and exit(or touch time display to cancel and exit).

2) Touch day display . Use ⊕ or ⊖ to change the day. Touch Done to store and exit.(or touch Day display to cancel and exit).

Select the required operating mode

Auto - Automatic mode, the thermostat executes the preprogrammed schedules. To adjust these schedules, see page 2 the program section.

In addition to Automatic mode, this thermostat has 3 extra manual modes, i.e ☼ ☾ 🧳 , each of these manual modes maintains a constant set temperature set by the user.

☼ - Comfort temperature mode, the highest temperature you want to achieve, this is the temperature that will be required when the room is in use. Default is 22 °C.

☾ - Economy temperature mode, the lowest temperature, the temperature you want to go no lower than when the room is not in use. Default is 16 °C.

🧳 - Vacation temperature mode, this is set to stop your floor from going below the set temperature. Default is 10 °C.

To change the set temperatures, touch temperature display. Use ⊕ or ⊖ to adjust to the required temperature. Touch Done to store and exit.

See overleaf for further setting up information

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Save money by setting program schedules

This thermostat can be individual 7-day programmable. For each day of the week you are able to have 6 timed set temperature schedules.

Programme	Start time	Setpoint
1	06:30	21°C
2	08:30	16°C
3	11:30	16°C
4	13:00	16°C
5	16:30	21°C
6	22:30	16°C

Above are default program schedules, to make changes, follow easy steps as below.

In 7 day program mode

1. Press [Set Schedule], you will see day display flashing.
2. Use ⊕ or ⊖ adjust the day to the day you wish to start programming or to the day you wish to edit an existing event or program.
   (Press [All Days] to select all days of the week, to cancel selecting all days of the week, press [All Days] again.)
3. Press [Next], the LCD will show program 1 with the time display flashing.
4. Use ⊕ or ⊖ adjust the time you wish the program 1 event to commence for the currently selected day or days.
5. Press [Next], the LCD will show a temperature value flashing.
6. Use ⊕ or ⊖ set the desired heating temperature to be maintained for the program 1 event.
7. Press [Next], now the LCD will show program 2 with the time display flashing, signifying the second daily event is now being programmed.
8. Repeat step 4,5,6 to set remaining programs. Press [DONE] to store and exit.

Note: It is faster to program the same schedule for the entire week and then to adjust the exceptional days.

In 5_2 day program mode

1. Press [Set Schedule], you will see the time flashing.
2. Use ⊕ or ⊖ to set your weekday Wake time(Mon-Fri), then press [Next]
3. Use ⊕ or ⊖ to set the temperature for this time period, then press [Next]
4. Set time and temperature for the next time period(Leave). Repeat steps 2 and 3 for each time period of the weekday.
5. Press [Next] to move to the weekend(sat-sun) time periods settings.
6. Press [DONE] to save and exit.

NOTE:

Day 1 - 5, refers to the weekday(Monday to Friday)
Day 6 - 7, refers to the weekend(Saturday and Sunday)

During setting programs, press [Delete] (if visible) will clear a program entry and thermostat will maintain the temperature setpoint of the last executed program until the beginning of the next program.

In 6_1 day program mode, follow same steps as 5_2 mode

Lock the Keypad

To lock the keypad, press and hold the bottom left corner of display for 5 seconds, you will see a lock symbol 🔒. To unlock, repeat the steps above.

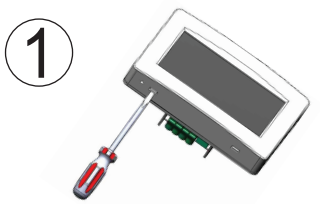
Reset to Factory Settings

With thermostat turned off, press and hold the up left corner of display for 5 seconds until you can see"RES" (RESET) on LCD.

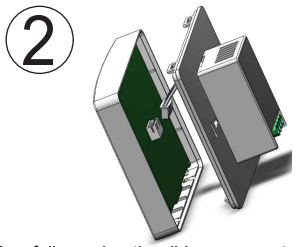
Temporary Temperature Override

Touch the temperature display, and it will start to flash. Use ⊕ or ⊖ to adjust. Press [DONE] to accept, and you will see "O/RIDE" on LCD. Thermostat will maintain the new set temperature until the next programmed event(comfort level). To cancel the override setting, press [Run Schedule]

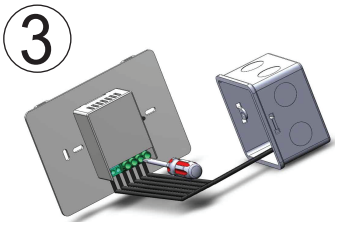
Installation and Wiring



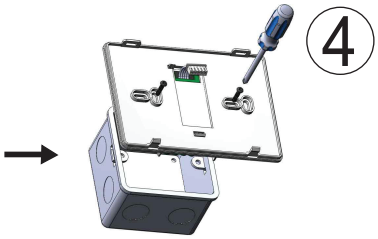
Carefully separate the front half of the thermostat from the back plate by placing a small flat head terminal driver into the slots on the bottom face of the thermostat



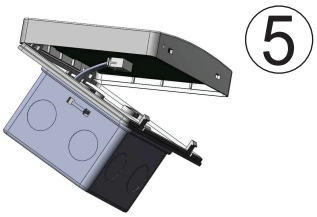
Carefully unplug the ribbon connector which is plugged in to the front half of the thermostat



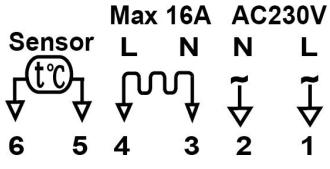
Place the thermostat front half somewhere safe. Terminate the thermostat as shown in the diagrams below



Screw the thermostat back plate on to the back box



Re-connect the thermostat ribbon cable and clip the two halves together



⚠ This product should be installedby a qualified electrician.

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